

Requested Patent: JP7196527A

Title: PEPTIDE OR ITS DERIVATIVE AND CELL GROWTH ACTIVATOR ;

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Applicant(s): MORINAGA MILK IND CO LTD ;

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Equivalents:

ABSTRACT:

PURPOSE: To obtain a new peptide having functions to activate the cell growth and a cell growth activator, containing the peptide and having enhanced effects.

CONSTITUTION: This peptide has any of amino acid sequences expressed by formulas I to VII or its derivative. This cell growth activator is obtained by blending the peptide, its derivative or a mixture thereof with an epidermal growth factor as active ingredients and more effective than a medicine of the epidermal growth factor alone. Both the ingredients in the activator are contained at concentrations of the peptide within the range of 0.1mg to 100mg/g peptide and the epidermal growth factor within the range of 0.01ng to 10mg/g. The peptide is obtained by hydrolyzing lactoferrins as a raw material with an acid or an enzyme and isolating the peptide from the resultant hydrolyzate. For example, the peptide is prepared by hydrolyzing a bovine lactoferrin with pepsin, dissolving the resultant hydrolyzate in water and isolating the peptide based on a linear gradient obtained from a mixture of a 0.5% aqueous solution of trifluoroacetic acid with a 90% aqueous solution of acetonitrile containing 0.041% trifluoroacetic acid at different concentrations of both the solutions using a column filled with ODS120-T(R) (manufactured by Tosoh Corp.).